

UNIT-1

1. Mention various air pollutants, their sources and effects on human health and environment.
2. Explain the measures to be taken to control particulate emission at source.
3. Explain the principle and working of settling chambers. Discuss merits and demerits.
4. Explain the working of cyclone. Explain the factors influencing the efficiency of cyclone.
5. Explain the working of bag filters. Discuss merits and demerits.
6. What are the properties of a good filter material.
7. Explain the working of Electrostatic precipitators. Discuss merits and demerits.
8. Discuss the merits and demerits of wet scrubbers.
9. Write the properties of an ideal adsorbent.
10. Discuss the methods of controlling gaseous pollutants.
11. Explain the methods of controlling SO_x.
12. Explain different methods of controlling NO_x.
13. Write about ambient air quality standards in India.
14. Discuss the salient features of Air Act.
15. Explain the effects of noise pollution on human health and environment.
16. Explain different methods of controlling outdoor noise pollution.

UNIT -2

1. Explain any example of volume reduction of industrial waste.
2. What are the advantages of reducing waste volume?
3. Discuss the strategies to reduce pollution from industries.
4. Discuss the methods of volume reduction of waste water.
5. Give examples of strength reduction of wastewater by modification of process.
6. Explain the methods of strength reduction give one example for each method.
7. What is equalization? Explain the advantages of Equalization.
8. Explain the criteria for fixing the volume of equalization tank.
9. Differentiate between equalization and neutralization.
10. Explain the concept of Common Effluent Treatment Plant (CETP).
11. Discuss the importance of fixing effluent standards.
12. What are the advantages and disadvantages of recycling industrial wastes?
13. Discuss the principles of waste minimization in industries.

UNIT -3

1. Classify the solid waste based on source and nature.
2. Discuss the importance of RRR in controlling pollution
3. Explain the steps in source reduction of solid waste and its advantages
4. Explain the seven step process of planning a solid waste management system for a community.
5. Discuss the advantages and disadvantages of segregation of solid waste
6. Explain the parameters to be considered in vehicle routing in collection of solid waste.
7. Discuss different techniques used in centralized solid waste segregation.
8. Discuss the advantages and disadvantages of composting
9. Explain the process of solid waste disposal by landfill.
10. Explain the precautions to be taken to control Leachate.
11. Discuss the role of citizens in Solid waste management.
12. Explain the effect of solid waste on environment.

UNIT-4

1. What is meant by environmental sanitation? Discuss the general principles of sanitation.
2. How to maintain better sanitation in hostels?
3. Explain the steps to be followed to maintain sanitation in hospitals
4. Discuss the measures to be taken to maintain sanitation at public gatherings.
5. Explain the health effects of not maintaining sanitation.
6. Discuss the measures to be taken to maintain sanitation in swimming pools.
7. Explain the working of septic tank. How the effluent from septic tank is to be disposed.
8. How to maintain sanitation in schools?
9. Discuss the steps to improve sanitation in rural areas.

UNIT -5

1. Discuss the characteristics of hazardous waste.
2. Explain the process of handling hazardous wastes.
3. What are different types of biomedical waste? How they are handled?
4. Explain the effects on health and Environment due to improper handling of biomedical waste.
5. Explain the process of handling E waste.
6. Discuss the impact of radioactive waste on health and environment.
7. Explain the process of handling radioactive waste.
8. Explain the importance of Sustainable development.
9. What are the indicators of sustainable development?
10. Discuss about barriers for sustainable development.
11. Discuss the effect of cleaner production in achieving sustainable development